

Work Order ID 142036

Tuesday, February 23, 2016 3:13:50 PM

142036

Page 1

Item ID: D206-642-211

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/18/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *ML*

Date: FEB 24 2016

Tooling:

Date:

Run Start

NR1

QC:

Date: SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D206-642	Q								
100		0.00	DAS						
100	DOCUMENT CONTROL		6						
DC	Memo	0.00	9-89						
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP206-642-211 CHG008								
110	Pick Kit	0.00	DAS						
110			6						
Packaging	Memo	0.00	9-89						
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

ML 16-0314

MAR 15 2016

MAR 14 2016

APR 25 2016

B142047

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____ Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 142036***142036***

Page 2

Item ID: D206-642-211

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Skidtube LH,High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 3/11/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursTool ID Tool # Plan
CodeAccept Reject Reject Insp.
Qty Qty Number Stamp

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D206-642-211
Location : FG083DAS
27
9-89
APR 21 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

APR 22 2016

MCS

MCS APR 21 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:J04.08.06 Revised Step 4 per
CHG003KJ/JLMJ04.08.06 IPP Rev:K
07-12-04 ECN 1080p DD verified by: IPP rev L 10.02.02 per
IIN rev M EC verified by: JLM IPP REV:M 11.11.17 PER IIN
REVO DD VERF;EC IPP Rev:N 12.11.21 ECN12-679 DD
verf:JLM IPP Rev:C 14.04.24 ECN14-520 DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D206-642-241		Manufactured	No			110	Each	4.0000	1	1			

D206-642-241

Replacement Skidtube,High Gear with Standard Wearplates Fits LH or RH

Sm

Location	Loc Qty	Loc Code
FG	2	
101553	1	
98943	1	
FG083	2	
112296	1	
113636	1	

**

B142047

DAS
28
6
9-89

D206-651-041

Manufactured No

D206-651-041

206 A/B GHW

DAS
27
9-89

Location	Loc Qty	Loc Code
FG	1	
79558	1	
PKG012	6	
114414	6	

**

DAS
28
6
9-89

MAR 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

D2665-1

Manufactured No

110 Each

5.0000

Start Qty: 1.00

Required Qty: 1.00

D2665-1

Saddle, LH, Fwd Aft Out

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST402

5

120551

4

135238

1

D2666-1

Manufactured No

110 Each

5.0000

D2666-1

Saddle, LH, Fwd, Aft, In

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST402

5

109550

4

135236

1

AN3-41A

Purchased No

110 Each

418.0000

AN3-41A

Bolt

**

DAS
6
9-89
DAS
28
9-89
MAR 14 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

FG

20

122416

20

over003

314

123355

314

ST347

84

123355

84

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐									

Picklist Print

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Work Order ID: 142036

Parent Item: D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

142036

D206-642-211

Start Date: 2/23/2016

Required Date: 3/11/2016

D2652 Manufactured No 110 Each 579.0000 Start Qty: 1.00 16

D2652

Bushing

Required Qty: 1.00

DAS 6 9-89
DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
FG	45	
31985	45	
ST009	234	
136228	234	
ST012a	300	
136792	0	
141077	300	

MS21042L3 Purchased No 110 Each 1,723.000

MS21042L3

Nut

16 8
**

DAS 6 9-89
DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
FP001	163	
m133790	163	
GA	130	
m133790	130	
ST304	1430	
m134039	1430	

NAS1149D0363J Purchased No 110 Each 1,138.000

NAS1149D0363J

Washer

8 8
**

DAS 6 9-89
DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
GA	64	
m130799	64	
ST263	1074	
m133932	74	
m134055	1000	

MAR 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN5-7A Purchased No

110 Each

Start Qty: 1.00
4.086.000

Required Qty: 1.00

AN5-7A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

over009

4086

M119017

2400

M123355

1510

m126010

176

110 Each

141.0000

**

DAS

6

9-89

DAS

28

9-89

AN5-11A

Purchased No

AN5-11A

BOLT

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

60

M134134

60

ST338

81

M133234

31

M134039

50

110 Each

1,324.000

**

DAS

6

9-89

DAS

28

9-89

NAS1149D0563J

Purchased No

NAS1149D0563.J

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

309

m125807

14

m133769

295

ST263

912

m133363

14

m133938

11

m133990

387

m134257

500

ST269

103

m128257

103

DAS

6

9-89

DAS

28

9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN4-6A Purchased No 110 Each 1.082.000

Start Qty: 1.00
12 12
**

Required Qty: 1.00

DAS 6 28 9-89

AN4-6A
BOLT

DAS 27 9-89

NAS1149D0463J

Purchased No

NAS1149D0463.J
WASHER

Location	Loc Qty	Loc Code
CA	143	
M128403	43	
M130851	100	
ST345	939	
M133316	18	
M133363	1	
M133790	920	
	110 Each 5,027.000	24 24

**

Location	Loc Qty	Loc Code
GA	237	
M129390	41	
M132035	196	
ST263	3442	
<u>M134039</u>	3442	
ST269	1348	
M130799	360	
M132317	100	
M132677	888	

DAS 6 28 9-89

MAR 14 2016

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
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Root Cause			FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				
Misidentified ☐	Past Due ☐					

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

MS21042L4

Purchased

No

110

Each

2,544.000

Start Qty: 1.00

12

Required Qty: 1.00

MS21042L4

Locknut

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

456

m133769

456

ST007

1500

m134055

1500

ST303

450

m133769

450

ST305

97

m130922

97

AN6-44A

Purchased

No

110

Each

180.0000

**

2

2

DAS 6 28
9-89 9-89

AN6-44A

Bolt

DAS 27
9-89

Location

Loc Qty

Loc Code

over008

150

123265

150

ST333

30

123265

30

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

MS21042L6

Purchased

No

110

Each

214.0000

Start Qty: 1.00

Required Qty: 1.00

MS21042L6

Nut

DAS
27
9-89

Location

Loc Qty

Loc Code

ST007

100

m134055

100

ST303

114

m133134

5

m133932

9

m133938

50

m134257

50

**

DAS
6
9-89

DAS
28
9-89

NAS1149D0663J

Purchased

No

110

Each

716.0000

**

NAS1149D0663.J

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260

227

M131618

227

ST260a

300

M133812

300

ST263

138

M133134

89

M133769

49

ST269

51

M126334

51

DAS
6
9-89

DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐							

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

AN4C5A Purchased No 110 Each 73.0000 Start Qty: 1.00 Required Qty: 1.00
AN4C5A
Bolt

DAS
27
9-89

Location	Loc Qty	Loc Code
OVER002	50	
m133990	50	
ST345	23	
m132857	3	
m133135	20	

DAS
6
28
9-89 9-89

NAS1149C0463R Purchased No 110 Each 390.0000
NAS1149C0463R
Washer

**

DAS
27
9-89

Location	Loc Qty	Loc Code
FP001	72	
m127306	72	
ST260a	200	
m134167	200	
ST271	118	
m128401	18	
m133077	100	

DAS
6
28
9-89

D3413-1 Manufactured No 110 Each 20.0000
D3413-1
O-Ring

**

DAS
27
9-89

Location	Loc Qty	Loc Code
st530	20	
136462	20	

MAR 14 2016
DAS
6
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 142036

142036

Parent Item: D206-642-211

D206-642-211

Parent Item Name: Skidtube LH.High Gear with Standard Wearplates (2.5" Bolt Spacing on Aft Saddle)

Start Date: 2/23/2016

Required Date: 3/11/2016

D2712
D2712
Set Screw

Manufactured No

110 Each

Start Qty: 1.00
463.0000 10
**

Required Qty: 1.00

Location

Loc Qty

Loc Code

FG 55
29962 55
ST009 208
102226 12
135950 182
89929 10
93686 4
ST012a 200
140532 100
141690 100

DAS 6 28
9-89 9-89

DAS
27
9-89

D2884
D2884
Saddle Spacer

Manufactured No

110 Each

16.0000 2
**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FG 10
29453 10
ST013 6
135977 6

DAS 6
9-89

D2885
D2885
Saddle Spacer

Manufactured No

110 Each

12.0000 2
**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FG 10
29199 10
ST013 2
121615 2

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

4.3 206A/B HIGH GEAR SKIDTUBES

ITEM	QTY -211	QTY -212	QTY -213	QTY -214	QTY -241	QTY -257	PART NUMBER	DESCRIPTION
	X						D206-642-211	SKIDTUBE INSTALLATION, LH
		X					D206-642-212	SKIDTUBE INSTALLATION, RH
			X				D206-642-213	SKIDTUBE INSTALLATION, LH, THRU BOLT
				X			D206-642-214	SKIDTUBE INSTALLATION, RH, THRU BOLT
	1	1	1	1	X		D206-642-241	SKIDTUBE/
						X	D206-642-267	WEARSHOE KIT (REPLACES -247)
	1	1	1	1			D206-651-041	* 206 GHW ADAPTER ⁽¹⁾
1					1		D2650-3	SKIDTUBE ASSEMBLY
2A					18		D2651-1	* PLUG ⁽¹⁾
2B					18		D2651-3	* O-RING ⁽¹⁾
3					1		D2646	* AFT CAP ⁽¹⁾
4					2		MS27039-1-08	* SCREW ⁽¹⁾
5					2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1				D2665-1	SADDLE, FWD OUT, LH
6		1		1			D2665-2	SADDLE, FWD OUT, RH
7	1		1				D2666-1	SADDLE, FWD IN, LH
7		1		1			D2666-2	SADDLE, FWD IN, RH
8	1						D2665-1	SADDLE, AFT OUT, LH
8		1					D2665-2	SADDLE, AFT OUT, RH
8			1				D2667-1	SADDLE, AFT OUT, LH
8				1			D2667-2	SADDLE, AFT OUT, RH
9	1						D2666-1	SADDLE, AFT IN, LH
9		1					D2666-2	SADDLE, AFT IN, RH
9			1				D2668-1	SADDLE, AFT IN, LH
9				1			D2668-2	SADDLE, AFT IN, RH
10	8	8	8	8			AN3-41A	BOLT
11	16	16	16	16			D2652	BUSHING
12A	8	8	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4			AN5-7A	BOLT
14	4	4	4	4			AN5-11A	BOLT
14A			2	2			AN5-32A	BOLT ⁽²⁾
14B			2	2			MS21042-5	* NUT (OR MS21042L5) ⁽²⁾
15	8	8	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12			AN4-6A	BOLT
17	24	24	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12			MS21042-4	NUT (OR MS21042L4)
20A					4	4	D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1	D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1	D4956-13	WEARSHOE (REPLACES D3535-13 + D3536-13)
23A					1	1	D4956-21	WEARSHOE (REPLACES D3535-21 + D3536-21)
24A					1	1	D4956-33	WEARSHOE (REPLACES D3535-33 + D3536-33)
26A					44	44	MS27039C1-08	SCREW
26B					44	44	NAS1149C0332R	WASHER (OR AN960C10L)
26C					44		ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
28	2	2	2	2			AN6-44A	BOLT
29A	2	2	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1	1	1			AN4C5A	BOLT
35	1	1	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1			D3413-1	RING (REPLACES D2655)
37	10	10	5	5			D2712	SET SCREW
38	2	2	2	2			D2884	SADDLE SPACER
39	2	2	2	2			D2885	SADDLE SPACER

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D2650-3 ASSEMBLY ABOVE

(2) MAY BE REQUIRED ON -213/-214 INSTALLATIONS

(3) NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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Revision: Q

Date: 13.08.12